SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Clark, Ross Gl Lowman, Henry B. Robinson, Iain C.A.F.
- (ii) TITLE OF INVENTION: Insulin-like Growth Factor Agonist Molecules
 - (iii) NUMBER OF SEQUENCES: 109
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Genentech, Inc.
 - (B) STREET: 1 DNA Way
 - (C) CITY: South San Francisco
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94080
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: WinPatin (Genentech)
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 09/052888
 - (B) FILING DATE: 31-Mar-1998
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Hasak, Janet E.
 - (B) REGISTRATION NUMBER: 28,616
 - (C) REFERENCE/DOCKET NUMBER: P1071P1
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 650/225-1896
 - (B) TELEFAX: 650/952-9881
 - (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
 - Glu Leu Asp Gly Trp Val Cys Ile Lys Val Gly Glu Gln Asn Leu
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Суя	Tyr	Leu	Ala	Glu 20	Gly 21	<i>7</i> -		
(2)	INFO	RMATI	ON	FOR	SEQ	ID	NO:2	:
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Trp Phe Lys Thr Val Cys Tyr Glu Trp Glu Asp Glu Val Gln Cys
1 10 15

Tyr Thr Leu Glu Glu Gly
20 21

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Arg Val Gly Ala Tyr Ile Ser Cys Ser Glu Thr Glu Cys Trp Val

Glu Asp Leu Leu Asp Gly 20 21

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Val Ala Trp Glu Val Cys Trp Asp Arg His Asp Gln Gly Tyr Ile 1 5 10 15

Cys Thr Thr Asp Ser 20

- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids

	(B) TYPE: Amino Acid (D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
	Ala Trp Glu Val Cys Trp Asp Arg His Gln Gly Tyr Ile Cys Thr 1 5 10 15
	Thr Asp Ser 18
	(2) INFORMATION FOR SEQ ID NO:6:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 15 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
: # "	Cys Trp Asp Arg His Asp Gln Gly Tyr Ile Cys Thr Thr Asp Ser 1 5 10 15
	(2) INFORMATION FOR SEQ ID NO:7:
4- 473 i i i i i i i i i i i i i i i i i i i	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
} :=====	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
	Glu Glu Ser Glu Cys Phe Glu Gly Pro Gly Tyr Val Ile Cys Gly 1 5 10
	Leu Val Gly 18
	(2) INFORMATION FOR SEQ ID NO:8:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
	Asp Met Gly Val Cys Ala Asp Gly Pro Trp Met Tyr Val Cys Glu 1 5 10
	Trp Thr Glu 18

Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn

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(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu
1 5 10 15

Lys Tyr Phe Gly

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Double
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

TCACGTAAAAAGGGTATCTAGAATTATGATGATTACTCTGCGCAAACTTC50CTCTGGCGGTTGCCGTCGCAGCGGGCGTAATGTCTGCTCAGGCCATGGCC100GGTCCCGAAACTCTGTGCGGTGCTGAACTGGTTGACGCTCTGCAGTTCGT200ATGTGGTGATCGAGGCTTCCTGTTCAACAAACCGACTGGGGCTGGATCCT250TCTTGCGACCTGCGTCCCCAGACTGGTATTGTGCGCTCCCCTGAAACCCGC300TAAATCTGCTTAGAAGCTCCTAACGCTCGGTTGCCGCCGGGCGTTTTTTA350TTGTTAACTCATGTTTGACAGCTTATCATCGATAAGCTTTAATGCGGTAG400

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 95 amino acids(B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Met Met Ile Thr Leu Arg Lys Leu Pro Leu Ala Val Ala Val Ala 1 5 10 15

Ala Gly Val Met Ser Ala Gln Ala Met Ala Gly Pro Glu Thr Leu 20 25 30

Cys Gly Ala Glu Leu Val Asp Ala Leu Gln Phe Val Cys Gly Asp 45

Arg Gly Phe Leu Phe Asn Lys Pro Thr Gly Ala Gly Ser Ser Ser 50 55 60

Arg Arg Ala Pro Gln Thr Gly Ile Val Asp Glu Cys Cys Phe Arg
65 70 75

Ser Cys Asp Leu Arg Arg Leu Glu Met Tyr Cys Ala Pro Leu Lys 80 85 90

Pro Ala Lys Ser Ala 95

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5115 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Double
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GAATTCAACTTCTCCATACTTTGGATAAGGAAATACAGACATGAAAAATAC50TCATTGCTGAGTTGTTATTTAAGCTTGCCCAAAAAGAAGAAGAGTCGAAT100GAACTGTGTGCGCAGGTAGAAGCTTTGGAGATTATCGTCACTGCAATGCT150TCGCAATATGGCGCAAAATGACCAACAGCGGTTGATTGATCAGGTAGAGG200GGGCGCTGTACGAGGTAAAGCCCGATGCCAGCATTCCTGACGACGATACCG250GAGCTGCTGCGCGATTACGTAAAGAAGTTATTGAAAGCATCCTCGTCAGTA300AAAAGTTAATCTTTTCAACAGCTGTCATAAAGTTGTCACGGCCGAGACTT350TCACGTAAAAAGGGTATCTAGAATTATGATTTTGTAACTAGTACGCAAGT400CTCTGGCGGTTGCCGTCGCAGCGGGCGTAATGTCTGCTCAGGCCATGGCC500ATGTGGGTGATCGAGGCTTCCTGTTCAACAAACCGACTGGGGCTGGATCCT600CCTCTCGTCGTGCTCCCCAGACTGGTATTGTTGACGAATGCTGCTTTCGT650TCTTGGGACCTGCGTCGTCTGGAAATGTATTGCGCTCCCCTGAAACCCGC700TAAATCTGCTTAGAAGCTCCTAAACGCTCGTTGCCGCCGGCGTTTTTTA750

TTGTTAACTC ATGTTTGACA GCTTATCATC GATAAGCTTT AATGCGGTAG 800 TTTATCACAG TTAAATTGCT AACGCAGTCA GGCACCGTGT ATGAAATCTA 850 ACAATGCGCT CATCGTCATC CTCGGCACCG TCACCCTGGA TGCTGTAGGC 900 ATAGGCTTGG TTATGCCGGT ACTGCCGGGC CTCTTGCGGG ATATCGTCCA 950 TTCCGACAGC ATCGCCAGTC ACTATGGCGT GCTGCTAGCG CTATATGCGT 1000 TGATGCAATT TCTATGCGCA CCCGTTCTCG GAGCACTGTC CGACCGCTTT 1050 GGCCGCCGCC CAGTCCTGCT CGCTTCGCTA CTTGGAGCCA CTATCGACTA 1100 CGCGATCATG GCGACCACAC CCGTCCTGTG GATCCTCTAC GCCGGACGCA 1150 TCGTGGCCGG CATCACCGGC GCCACAGGTG CGGTTGCTGG CGCCTATATC 1200 GCCGACATCA CCGATGGGGA AGATCGGGCT CGCCACTTCG GGCTCATGAG 1250 CGCTTGTTTC GGCGTGGGTA TGGTGGCAGG CCCCGTGGCC GGGGGACTGT 1300 TGGGCGCCAT CTCCTTGCAT GCACCATTCC TTGCGGCGGC GGTGCTCAAC 1350 GGCCTCAACC TACTACTGGG CTGCTTCCTA ATGCAGGAGT CGCATAAGGG 1400 AGAGCGTCGA CCGATGCCCT TGAGAGCCTT CAACCCAGTC AGCTCCTTCC 1450 GGTGGGCGCG GGGCATGACT ATCGTCGCCG CACTTATGAC TGTCTTCTTT 1500 ATCATGCAAC TCGTAGGACA GGTGCCGGCA GCGCTCTGGG TCATTTTCGG 1550 CGAGGACCGC TTTCGCTGGA GCGCGACGAT GATCGGCCTG TCGCTTGCGG 1600 TATTCGGAAT CTTGCACGCC CTCGCTCAAG CCTTCGTCAC TGGTCCCGCC 1650 ACCAAACGTT TCGGCGAGAA GCAGGCCATT ATCGCCGGCA TGGCGGCCGA 1700 CGCGCTGGGC TACGTCTTGC TGGCGTTCGC GACGCGAGGC TGGATGGCCT 1750 TCCCCATTAT GATTCTTCTC GCTTCCGGCG GCATCGGGAT GCCCGCGTTG 1800 CAGGCCATGC TGTCCAGGCA GGTAGATGAC GACCATCAGG GACAGCTTCA 1850 AGGATCGCTC GCGGCTCTTA CCAGCCTAAC TTCGATCACT GGACCGCTGA 1900 TCGTCACGGC GATTTATGCC GCCTCGGCGA GCACATGGAA CGGGTTGGCA 1950 TGGATTGTAG GCGCCGCCT ATACCTTGTC TGCCTCCCCG CGTTGCGTCG 2000 CGGTGCATGG AGCCGGGCCA CCTCGACCTG AATGGAAGCC GGCGGCACCT 2050 CGCTAACGGA TTCACCACTC CAAGAATTGG AGCCAATCAA TTCTTGCGGA 2100 GAACTGTGAA TGCGCAAACC AACCCTTGGC AGAACATATC CATCGCGTCC 2150 GCCATCTCCA GCAGCCGCAC GCGGCGCATC TCGGGCAGCG TTGGGTCCTG 2200 GCCACGGGTG CGCATGATCG TGCTCCTGTC GTTGAGGACC CGGCTAGGCT 2250 GGCGGGGTTG CCTTACTGGT TAGCAGAATG AATCACCGAT ACGCGAGCGA 2300 ACGTGAAGCG ACTGCTGCTG CAAAACGTCT GCGACCTGAG CAACAACATG 2350 AATGGTCTTC GGTTTCCGTG TTTCGTAAAG TCTGGAAACG CGGAAGTCAG 2400 CGCCCTGCAC CATTATGTTC CGGATCTGCA TCGCAGGATG CTGCTGGCTA 2450 CCCTGTGGAA CACCTACATC TGTATTAACG AAGCGCTGGC ATTGACCCTG 2500 AGTGATTTTT CTCTGGTCCC GCCGCATCCA TACCGCCAGT TGTTTACCCT 2550 CACAACGTTC CAGTAACCGG GCATGTTCAT CATCAGTAAC CCGTATCGTG 2600 AGCATCCTCT CTCGTTTCAT CGGTATCATT ACCCCCATGA ACAGAAATTC 2650 CCCCTTACAC GGAGGCATCA AGTGACCAAA CAGGAAAAAA CCGCCCTTAA 2700 CATGGCCCGC TTTATCAGAA GCCAGACATT AACGCTTCTG GAGAAACTCA 2750 ACGAGCTGGA CGCGGATGAA CAGGCAGACA TCTGTGAATC GCTTCACGAC 2800 CACGCTGATG AGCTTTACCG CAGCTGCCTC GCGCGTTTCG GTGATGACGG 2850 TGAAAACCTC TGACACATGC AGCTCCCGGA GACGGTCACA GCTTGTCTGT 2900 AAGCGGATGC CGGGAGCAGA CAAGCCCGTC AGGGCGCGTC AGCGGGTGTT 2950 GGCGGGTGTC GGGGCGCAGC CATGACCCAG TCACGTAGCG ATAGCGGAGT 3000 GTATACTGGC TTAACTATGC GGCATCAGAG CAGATTGTAC TGAGAGTGCA 3050 CCATATGCGG TGTGAAATAC CGCACAGATG CGTAAGGAGA AAATACCGCA 3100 TCAGGCGCTC TTCCGCTTCC TCGCTCACTG ACTCGCTGCG CTCGGTCGTT 3150 CGGCTGCGGC GAGCGGTATC AGCTCACTCA AAGGCGGTAA TACGGTTATC 3200 CACAGAATCA GGGGATAACG CAGGAAAGAA CATGTGAGCA AAAGGCCAGC 3250 AAAAGGCCAG GAACCGTAAA AAGGCCGCGT TGCTGGCGTT TTTCCATAGG 3300 CTCCGCCCC CTGACGAGCA TCACAAAAAT CGACGCTCAA GTCAGAGGTG 3350 GCGAAACCCG ACAGGACTAT AAAGATACCA GGCGTTTCCC CCTGGAAGCT 3400 CCCTCGTGCG CTCTCCTGTT CCGACCCTGC CGCTTACCGG ATACCTGTCC 3450 GCCTTTCTCC CTTCGGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG 3500 GTATCTCAGT TCGGTGTAGG TCGTTCGCTC CAAGCTGGGC TGTGTGCACG 3550 AACCCCCCGT TCAGCCCGAC CGCTGCGCCT TATCCGGTAA CTATCGTCTT 3600 GAGTCCAACC CGGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG 3650 TAACAGGATT AGCAGAGCGA GGTATGTAGG CGGTGCTACA GAGTTCTTGA 3700 AGTGGTGGCC TAACTACGGC TACACTAGAA GGACAGTATT TGGTATCTGC 3750 GCTCTGCTGA AGCCAGTTAC CTTCGGAAAA AGAGTTGGTA GCTCTTGATC 3800 CGGCAAACAA ACCACCGCTG GTAGCGGTGG TTTTTTTGTT TGCAAGCAGC 3850 AGATTACGCG CAGAAAAAA GGATCTCAAG AAGATCCTTT GATCTTTTCT 3900 ACGGGGTCTG ACGCTCAGTG GAACGAAAAC TCACGTTAAG GGATTTTGGT 3950 CATGAGATTA TCAAAAAGGA TCTTCACCTA GATCCTTTTA AATTAAAAAT 4000 GAAGTTTTAA ATCAATCTAA AGTATATATG AGTAAACTTG GTCTGACAGT 4050 TACCAATGCT TAATCAGTGA GGCACCTATC TCAGCGATCT GTCTATTTCG 4100 TTCATCCATA GTTGCCTGAC TCCCCGTCGT GTAGATAACT ACGATACGGG 4150 AGGGCTTACC ATCTGGCCCC AGTGCTGCAA TGATACCGCG AGACCCACGC 4200 TCACCGGCTC CAGATTTATC AGCAATAAAC CAGCCAGCCG GAAGGGCCGA 4250 GCGCAGAAGT GGTCCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT 4300 GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC 4350 GTTGTTGCCA TTGCTGCAGG CATCGTGGTG TCACGCTCGT CGTTTGGTAT 4400 GGCTTCATTC AGCTCCGGTT CCCAACGATC AAGGCGAGTT ACATGATCCC 4450 CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC 4500 AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA 4550 TAATTCTCTT ACTGTCATGC CATCCGTAAG ATGCTTTTCT GTGACTGGTG 4600 AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG ACCGAGTTGC 4650

TCTTGCCCGG CGTCAACAC GGATAATACC GCGCCACATA GCAGAACTTT 4700
AAAAGTGCTC ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA 4750
TCTTACCGCT GTTGAGATCC AGTTCGATGT AACCCACTCG TGCACCCAAC 4800
TGATCTTCAG CATCTTTAC TTTCACCAGC GTTTCTGGGT GAGCAAAAAC 4850
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT 4900
GAATACTCAT ACTCTTCCTT TTTCAATATT ATTGAAGCAT TTATCAGGGT 4950
TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA AAAATAAACA 5000
AATAGGGGTT CCGCGCACAT TTCCCCGAAA AGTGCCACCT GACGTCTAAG 5050
CCCTTTCGTC TTCAA 5115

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5140 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GAATTCAACTTCTCCATACTTTGGATAAGGAAATACAGACATGAAAAATAC50TCATTGCTGAGTTGTTATTTAAGCTTGCCCAAAAAGAAGAAGAGTCGAAT100GAACTGTGTGCGCAGGTAGAAGCTTTGGAGATTATCGTCACTGCAATGCT150TCGCAATATGGCGCAAAATGACCAACAGCGGTTGATTGATCAGGTAGAGG200GGGCGCTGTACGAGGTAAAGCCCGATGCCAGCATTCCTGACGACGATACG250GAGCTGCTGCGCGATTACGTAAAGAAGTTATTGAAGCATCCTCGTCAGTA300AAAAGTTAATCTTTTCAACAGCTGTCATAAAGTTGTCACGGCCGAGACTT350ATAGCCGCTTTGTTTTTATTTTTTAATGTATTTGTAACTAGTACGCAAGT400TCGCATTTCTTCTTGCATCTATGTTCGTTTTTTCTATTGCTACAAATGCC500TATGCATCTGGTACCGCCATGGCTGATCCGAACCGTTTCCGCGGTAAAGA550

TCTGGCAGGT TCACCAGGTG GAGGATCCGG AGGAGGCGCC GAGGGTGACG 600 ATCCCGCAAA AGCGGCCTTT AACTCCCTGC AAGCCTCAGC GACCGAATAT 650 ATCGGTTATG CGTGGGCGAT GGTTGTTGTC ATTGTCGGCG CAACTATCGG 700 TATCAAGCTG TTTAAGAAAT TCACCTCGAA AGCAAGCTGA TAAACCGATA 750 CAATTAAAGG CTCCTTTTGG AGCCTTTTTT TTTGGAGATT TTCAACGTGA 800 AAAAATTATT ATTCGCAATT CCTTTAGTTG TTCCTTTCTA TTCTCACTCC 850 GCTGAAACTG TTGAAAGTTG TTTAGCAAAA CCCCATACAG AAAATTCATT 900 TACTAACGTC TGGAAAGACG ACAAAACTTT AGATCGTTAC GCTAACTATG 950 AGGGTTGTCT GTGGAATGCT ACAGGCGTTG TAGTTTGTAC TGGTGACGAA 1000 ACTCAGTGTC TAGCTAGAGT GGCGGTGGCT CTGGTTCCGG TGATTTTGAT 1050 TATGAAAAGA TGGCAAACGC TAATAAGGGG GCTATGACCG AAAATGCCGA 1100 TGAAAACGCG CTACAGTCTG ACGCTAAAGG CAAACTTGAT TCTGTCGCTA 1150 CTGATTACGG TGCTGCTATC GATGGTTTCA TTGGTGACGT TTCCGGCCTT 1200 GCTAATGGTA ATGGTGCTAC TGGTGATTTT GCTGGCTCTA ATTCCCAAAT 1250 GGCTCAAGTC GGTGACGGTG ATAATTCACC TTTAATGAAT AATTTCCGTC 1300 AATATTTACC TTCCCTCCCT CAATCGGTTG AATGTCGCCC TTTTGTCTTT 1350 AGCGCTGGTA AACCATATGA ATTTTCTATT GATTGTGACA AAATAAACTT 1400 ATTCCGTGGT GTCTTTGCGT TTCTTTTATA TGTTGCCACC TTTATGTATG 1450 TATTTTCTAC GTTTGCTAAC ATACTGCGTA ATAAGGAGTC TTAATCATGC 1500 CAGTTCTTTT GGCTAGCGCC GCCCTATACC TTGTCTGCCT CCCCGCGTTG 1550 CGTCGCGGTG CATGGAGCCG GGCCACCTCG ACCTGAATGG AAGCCGGCGG 1600 CACCTCGCTA ACGGATTCAC CACTCCAAGA ATTGGAGCCA ATCAATTCTT 1650 GCGGAGAACT GTGAATGCGC AAACCAACCC TTGGCAGAAC ATATCCATCG 1700 CGTCCGCCAT CTCCAGCAGC CGCACGCGGC GCATCTCGGG CAGCGTTGGG 1750 TCCTGGCCAC GGGTGCGCAT GATCGTGCTC CTGTCGTTGA GGACCCGGCT 1800 AGGCTGGCGG GGTTGCCTTA CTGGTTAGCA GAATGAATCA CCGATACGCG 1850 AGCGAACGTG AAGCGACTGC TGCTGCAAAA CGTCTGCGAC CTGAGCAACA 1900 ACATGAATGG TCTTCGGTTT CCGTGTTTCG TAAAGTCTGG AAACGCGGAA 1950 GTCAGCGCCC TGCACCATTA TGTTCCGGAT CTGCATCGCA GGATGCTGCT 2000 GGCTACCCTG TGGAACACCT ACATCTGTAT TAACGAAGCG CTGGCATTGA 2050 CCCTGAGTGA TTTTTCTCTG GTCCCGCCGC ATCCATACCG CCAGTTGTTT 2100 ACCCTCACAA CGTTCCAGTA ACCGGGCATG TTCATCATCA GTAACCCGTA 2150 TCGTGAGCAT CCTCTCTCGT TTCATCGGTA TCATTACCCC CATGAACAGA 2200 AATTCCCCCT TACACGGAGG CATCAAGTGA CCAAACAGGA AAAAACCGCC 2250 CTTAACATGG CCCGCTTTAT CAGAAGCCAG ACATTAACGC TTCTGGAGAA 2300 ACTCAACGAG CTGGACGCGG ATGAACAGGC AGACATCTGT GAATCGCTTC 2350 ACGACCACGC TGATGAGCTT TACCGCAGGA TCCGGAAATT GTAAACGTTA 2400 ATATTTTGTT AAAATTCGCG TTAAATTTTT GTTAAATCAG CTCATTTTTT 2450 AACCAATAGG CCGAAATCGG CAAAATCCCT TATAAATCAA AAGAATAGAC 2500 CGAGATAGGG TTGAGTGTTG TTCCAGTTTG GAACAAGAGT CCACTATTAA 2550 AGAACGTGGA CTCCAACGTC AAAGGGCGAA AAACCGTCTA TCAGGGCTAT 2600 GGCCCACTAC GTGAACCATC ACCCTAATCA AGTTTTTTGG GGTCGAGGTG 2650 CCGTAAAGCA CTAAATCGGA ACCCTAAAGG GAGCCCCCGA TTTAGAGCTT 2700 GACGGGGAAA GCCGGCGAAC GTGGCGAGAA AGGAAGGGAA GAAAGCGAAA 2750 GGAGCGGGCG CTAGGGCGCT GGCAAGTGTA GCGGTCACGC TGCGCGTAAC 2800 CACCACACCC GCCGCGCTTA ATGCGCCGCT ACAGGGCGCG TCCGGATCCT 2850 GCCTCGCGCG TTTCGGTGAT GACGGTGAAA ACCTCTGACA CATGCAGCTC 2900 CCGGAGACGG TCACAGCTTG TCTGTAAGCG GATGCCGGGA GCAGACAAGC 2950 CCGTCAGGGC GCGTCAGCGG GTGTTGGCGG GTGTCGGGGC GCAGCCATGA 3000 CCCAGTCACG TAGCGATAGC GGAGTGTATA CTGGCTTAAC TATGCGGCAT 3050 CAGAGCAGAT TGTACTGAGA GTGCACCATA TGCGGTGTGA AATACCGCAC 3100 AGATGCGTAA GGAGAAAATA CCGCATCAGG CGCTCTTCCG CTTCCTCGCT 3150 CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC 3200 ACTCAAAGGC GGTAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA 3250 AAGAACATGT GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAAGGC 3300 CGCGTTGCTG GCGTTTTTCC ATAGGCTCCG CCCCCTGAC GAGCATCACA 3350 AAAATCGACG CTCAAGTCAG AGGTGGCGAA ACCCGACAGG ACTATAAAGA 3400 TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC CTGTTCCGAC 3450 CCTGCCGCTT ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG 3500 CGCTTTCTCA TAGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT 3550 CGCTCCAAGC TGGGCTGTGT GCACGAACCC CCCGTTCAGC CCGACCGCTG 3600 CGCCTTATCC GGTAACTATC GTCTTGAGTC CAACCCGGTA AGACACGACT 3650 TATCGCCACT GGCAGCAGCC ACTGGTAACA GGATTAGCAG AGCGAGGTAT 3700 GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT ACGGCTACAC 3750 TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA GTTACCTTCG 3800 GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC 3850 GGTGGTTTTT TTGTTTGCAA GCAGCAGATT ACGCGCAGAA AAAAAGGATC 3900 TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT CAGTGGAACG 3950 AAAACTCACG TTAAGGGATT TTGGTCATGA GATTATCAAA AAGGATCTTC 4000 ACCTAGATCC TTTTAAATTA AAAATGAAGT TTTAAATCAA TCTAAAGTAT 4050 ATATGAGTAA ACTTGGTCTG ACAGTTACCA ATGCTTAATC AGTGAGGCAC 4100 CTATCTCAGC GATCTGTCTA TTTCGTTCAT CCATAGTTGC CTGACTCCCC 4150 GTCGTGTAGA TAACTACGAT ACGGGAGGGC TTACCATCTG GCCCCAGTGC 4200 TGCAATGATA CCGCGAGACC CACGCTCACC GGCTCCAGAT TTATCAGCAA 4250 TAAACCAGCC AGCCGGAAGG GCCGAGCGCA GAAGTGGTCC TGCAACTTTA 4300 TCCGCCTCCA TCCAGTCTAT TAATTGTTGC CGGGAAGCTA GAGTAAGTAG 4350 TTCGCCAGTT AATAGTTTGC GCAACGTTGT TGCCATTGCT GCAGGCATCG 4400 TGGTGTCACG CTCGTCGTTT GGTATGGCTT CATTCAGCTC CGGTTCCCAA 4450

CGATCAAGGC GAGTTACATG ATCCCCATG TTGTGCAAAA AAGCGGTTAG 4550
CTCCTTCGGT CCTCCGATCG TTGTCAGAAG TAAGTTGGCC GCAGTGTTAT 4550
CACTCATGGT TATGGCAGCA CTGCATAATT CTCTTACTGT CATGCCATCC 4600
GTAAGATGCT TTTCTGTGAC TGGTGAGTAC TCAACCAAGT CATTCTGAGA 4650
ATAGTGTATG CGGCGACCGA GTTGCTCTTG CCCGGCGTCA ACACGGGATA 4700
ATACCGCGCC ACATAGCAGA ACTTTAAAAG TGCTCATCAT TGGAAAACGG 4750
CTTCGGGGC GAAAACTCTC AAGGATCTTA CCGCTGTTGA GATCCAGTTC 4800
GATGTAACCC ACTCGTGCAC CCAACTGATC TTCAGCATCT TTTACTTTCA 4850
CCAGCGTTTC TGGGTGAGCA AAAACAGGAA GGCAAAATGC CGCAAAAAAAG 4900
GGAATAAGGG CGACACGGAA ATGTTGAATA CTCATACTCT TCCTTTTCA 4950
ATATTATTGA AGCATTTATC AGGGTTATTG TCTCATGAGC GGATACATAT 5000
TTGAATGTAT TTAGAAAAAT AAACAAAATAG GGGTTCCGCG CACATTTCCC 5050
CGAAAAAGTGC CACCTGACGT CTAAAGAAAC ATTATTATCA TGACATTAAC 5100

- (2) INFORMATION FOR SEQ ID NO:21:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 77 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:
 - Ser Gly Thr Ala Met Ala Asp Pro Asn Arg Phe Arg Gly Lys Asp
 - Leu Ala Gly Ser Pro Gly Gly Gly Ser Gly Gly Gly Ala Glu Gly 20 25 30
 - Asp Asp Pro Ala Lys Ala Ala Phe Asn Ser Leu Gln Ala Ser Ala 35 40 45
 - Thr Glu Tyr Ile Gly Tyr Ala Trp Ala Met Val Val Val Ile Val
 50 55 60
 - Gly Ala Thr Ile Gly Ile Lys Leu Phe Lys Lys Phe Thr Ser Lys
 65 70 75

Ala Ser

- (2) INFORMATION FOR SEQ ID NO:22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 50 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GTTCGTATGT GGTGATCGAG GCTTCCTGTT CAACAAACCG ACTGGGGCTG 50

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 58 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Nucleic Acid
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GATCCAGCCC CAGTCGGTTT GTTGAACAGG AAGCCTCGAT CACCACATAC 50
GAACTGCA 58

- (2) INFORMATION FOR SEQ ID NO:24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

Ser Gly Thr Ala Cys Xaa Xaa Gly Pro Xaa Xaa Xaa Xaa Cys Ser 1 5 10 15

Leu Ala Gly Ser Pro

- (2) INFORMATION FOR SEQ ID NO:25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: Amino Acid

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	Xaa Xaa Xaa Xaa Cys Xaa Xaa Gly Pro Xaa Xaa Xaa Cys Xaa 1 5 10
	Xaa Xaa Xaa 18
	(2) INFORMATION FOR SEQ ID NO:26:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:
	Xaa
# C.	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:27:
å	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
≜ J	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:
	Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Cys Xaa Xaa 1 5 10
	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:28:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:
	Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa 1 5 19

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

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	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:29:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:
	Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa 1 5 10 15
	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:30:
Thirty of the Manne Street Street	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:
	Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Cys 1 5 10
	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:31:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:
	Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys 1 5 10
	Xaa Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids

	Cys Xaa Xaa Xaa 20
	(2) INFORMATION FOR SEQ ID NO:33:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:
The state of the s	Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xa
H II Come See And Link	Cys Xaa Xaa Xaa 20
21 EE	(2) INFORMATION FOR SEQ ID NO:34:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:
	Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cy 1 5 10
	Lys Pro Gln Gly Gly 20
	(2) INFORMATION FOR SEQ ID NO:35:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 10 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Cys Xaa Xaa Gly Pro Xaa Xaa Xaa Cys 1 5 10

(B) TYPE: Amino Acid(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 70 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GCCTATGCAT CTGGTACCGC CTGCNNSNNS GGTCCTNNSN NSNNSNNSTG 50
TTCTCTGGCA GGTTCACCAG 70

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 91 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Nucleic Acid
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GCTACAAATG CCTATGCANN SNNSNNSNNS TGCNNSNNSG GTCCTNNSNN 50 SNNSNNSTGT NNSNNSNNSN NSGGTGGAGG ATCCGGAGGA G 91

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSNNSNNST GCNNSNNSNN 50 SNNSTGCNNS NNSNNSNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:39:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single

(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSNNSNNST GCNNSNNSNN 50 SNNSNNSTGC NNSNNSNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:40:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSNNSTGCN NSNNSNNSNN 50 SNNSNNSTGC NNSNNSNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:41:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSNNSTGCN NSNNSNNSNN 50 SNNSNNSNNS TGCNNSNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:42:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSTGCNNSN NSNNSNNSNN 50

SNNSNNSNNS TGCNNSNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:43:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSTGCNNSN NSNNSNNSNN 50 SNNSNNSNNS NNSTGCNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:44:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

GCTACAAATG CCTATGCANN SNNSNNSNNS TGCNNSNNSN NSNNSNNSNN 50 SNNSNNSNNS NNSTGCNNSN NSNNSNNSGG TGGAGGATCC GGAGGAG 97

- (2) INFORMATION FOR SEQ ID NO:45:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Xaa Xaa Xaa Xaa 20

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 97 base pairs
 - (B) TYPE: Nucleic Acid

	SNNSNNSNNS NNSNNSNN NSNNSNNSGG TGGAGGATCC GGAGGAG 97
	(2) INFORMATION FOR SEQ ID NO:47:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:
	Ser Gly Thr Ala Cys Tyr Gly Gly Pro Glu Trp Trp Cys Cys Ser 1 10 15
Rodin A. A. A. H. Hilliam And Built	Leu Ala Gly Ser Pro 20
	(2) INFORMATION FOR SEQ ID NO:48:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
.4	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:
	Asp Leu Ala Ile Cys Ala Glu Gly Pro Glu Ile Trp Val Cys Glu 1 5 10
:=	Glu Thr Ser 18
	(2) INFORMATION FOR SEQ ID NO:49:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:
	Asp Phe Trp Ile Cys Leu Ser Gly Pro Gly Trp Glu Glu Cys Leu

(C) STRANDEDNESS: Single
(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

GCTACAAATG CCTATGCANN SNNSNNSNNS NNSNNSNNSN NSNNSNNSNN 50

	Glu Trp Trp 18
	(2) INFORMATION FOR SEQ ID NO:50:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:
	Gly Ser Ala Gly Gln Gly Met Thr Glu Glu Trp Ala Trp Ile Trp 1 5 10 15
	Glu Trp Trp Lys Glu 20
	(2) INFORMATION FOR SEQ ID NO:51:
Bo 1652 H. H. H. M. 1655 H.	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
==	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:
0	Glu Leu Asp Gly Trp Val Cys Ile Lys Val Gly Glu Gln Asn Leu 1 5 10 15
also also	Cys Tyr Leu Ala Glu 20
	(2) INFORMATION FOR SEQ ID NO:52:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:
	Ala Ile Gly Gly Trp Cys Phe Ile Glu Leu Asp Ser Leu Trp Cys 1 5 10
	Glu Glu Gln Ile Gly 20
	(2) INFORMATION FOR SEQ ID NO:53:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids

	Ser Glu Asp Val Glu Cys Trp Gln Val Trp Glu Asn Leu Val Cys 1 5 10 .
	Ser Val Glu His Arg 20
	(2) INFORMATION FOR SEQ ID NO:54:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 19 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:
	Ser Glu Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 1 5 10
The state of the s	Met Trp Gly Arg 19
	(2) INFORMATION FOR SEQ ID NO:55:
Hart the tree to the tree tre	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
1U 10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:
	Arg Val Gly Ala Tyr Ile Ser Cys Ser Glu Thr Glu Cys Trp Va 1 5 10
	Glu Asp Leu Leu Asp 20
	(2) INFORMATION FOR SEQ ID NO:56:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

(B) TYPE: Amino Acid(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

Trp Phe Lys Thr Val Cys Tyr Glu Trp Glu Asp Glu Val Gln Cys 1 5

Tyr Thr Leu Glu Glu

(2) INFORMATION FOR SEQ ID NO:57: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57: Arg Leu Glu Glu Gln Cys Val Glu Val Asn Tyr Glu Pro Ser Cys 15 Ser Phe Thr Ala Asn (2) INFORMATION FOR SEQ ID NO:58: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:58: Ser Glu Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 10 Ile Leu Gly Pro (2) INFORMATION FOR SEQ ID NO:59: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:59: Glu Thr Val Ala Asn Cys Asp Cys Tyr Met Asp Leu Cys Leu Cys 10 Tyr Gly Ser Asp Arg (2) INFORMATION FOR SEQ ID NO:60:

> (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:
	Tyr His Pro Ile Ser Cys Met Asp His Tyr Tyr Leu Ile Ile Cys 1 5 10 15
	Asp Glu Thr Val Asn 20
	(2) INFORMATION FOR SEQ ID NO:61:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:
	Ala Glu Trp Ala Glu Cys Trp Ile Ala Gly Asp Gln Leu Leu Cys 1 5 10
	Val Gly Lys Asp Asn 20
21 22 23 24 24 24 24 25	(2) INFORMATION FOR SEQ ID NO:62:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:
	Glu Pro Trp Leu Cys Gln Tyr Tyr Glu Ala Ala Met Leu Tyr Le 1 5 10.
	Cys Trp Glu Glu Gly 20
	(2) INFORMATION FOR SEQ ID NO:63:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:
	Ala Glu Glu Gly Met Val Trp Gly Trp Thr Gly Gly Trp Tyr As 1 5 10

(B) TYPE: Amino Acid(D) TOPOLOGY: Linear

(2) INFORMATION FOR SEQ ID NO:64: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:64: Ser Gly Gly Ala Ile Tyr Trp Pro Val Glu Gln Phe Ile Ala Phe Met Ala Val Gly Lys (2) INFORMATION FOR SEQ ID NO:65: (i) SEQUENCE CHARACTERISTICS: 13 (A) LENGTH: 20 amino acids (B) TYPE: Amino Acid 44 (D) TOPOLOGY: Linear IJ (xi) SEQUENCE DESCRIPTION: SEQ ID NO:65: === Ser Gly Gly Ala Ile Tyr Met Pro Val Glu Gln Phe Ile Ala Phe 10 10 14 ŧi Met Ala Val Gly Lys 1.4 1.4 ľŲ (2) INFORMATION FOR SEQ ID NO:66: ľ,Ō (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:66: Glu Val Leu Leu Cys Ser Asp Gly Pro Gln Leu Tyr Leu Cys Glu 10 - 1 Leu Tyr Ala 18 (2) INFORMATION FOR SEQ ID NO:67:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids

Leu Asp Glu Leu Cys

	(B) TYPE: Amino Acid (D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:
	Ser Gly Val Glu Cys Val Trp Gly Pro Gln Trp Gly Phe Cys Val 1 5 10 15
	Glu Glu Tyr 18
	(2) INFORMATION FOR SEQ ID NO:68:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:
	Asp Lys Glu Val Cys Tyr Leu Gly Pro Glu Thr Trp Leu Cys Phe 1 5 10 15
Andre II is is the street that the	Trp Trp Pro 18
	(2) INFORMATION FOR SEQ ID NO:69:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:
	Gly Asp Val Glu Cys Ile Glu Gly Pro Trp Gly Glu Leu Cys Val 1 5 10
	Trp Ala Asp 18
	(2) INFORMATION FOR SEQ ID NO:70:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:
	Phe Gly Gly Trp Ser Cys Gln Pro Thr Trp Val Asp Val Tyr Val 1 5 10

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Cys Asn Phe Glu Glu
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- (2) INFORMATION FOR SEQ ID NO:71:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

Ala Met Trp Val Cys Val Ser Asp Trp Glu Thr Val Glu Glu Cys
1 5 10 15

Ile Gln Tyr Met Tyr 20

- (2) INFORMATION FOR SEQ ID NO:72:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

Thr Asn Trp Phe Phe Val Cys Glu Ser Gly His Gln Asp Ile Cys 1 5 10 15

Trp Leu Ala Glu Glu 20

- (2) INFORMATION FOR SEQ ID NO:73:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 18 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu 1 5 10 15

Lys Tyr Phe

- (2) INFORMATION FOR SEQ ID NO:74:
 - (i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 19 amino acids

(B) TYPE: Amino Acid (D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:
Lys Asp Pro Val Cys Gly Glu Gly Pro Leu Met Arg Ile Cys Glu 1 5 10 15
Arg Leu Phe Gly 19
(2) INFORMATION FOR SEQ ID NO:75:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:
Glu Val Asp Gly Arg Trp Trp Ile Val Glu Thr Phe Leu Ala Lys 1 5 10 15
Trp Asp His Met Ala Gly 20 21
(2) INFORMATION FOR SEQ ID NO:76:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:
Trp Val Met Glu Cys Gly Ala Gly Pro Trp Pro Glu Gly Cys Thr 1 5
Phe Met Leu 18
(2) INFORMATION FOR SEQ ID NO:77:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 19 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

Arg Lys Thr Ser Gln Gly Arg Gly Gln Glu Met Cys Trp Glu Thr $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

	(2) INFORMATION FOR SEQ ID NO:78:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:
	Ser Trp Glu Arg Gly Glu Leu Thr Tyr Met Lys Leu Cys Glu Tyr 1 5 10 15
	Met Arg Leu Gln Gln 20
	(2) INFORMATION FOR SEQ ID NO:79:
15- 45-8 1 1 1 1 15- 15- 15- 15- 15- 15- 15- 15-	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:
j	Glu His Gly Arg Ala Asn Cys Leu Ile Thr Pro Glu Ala Gly Lys 1 5 10 15
<u>.</u>	Leu Ala Arg Val Thr 20
	(2) INFORMATION FOR SEQ ID NO:80:
10 miles (10 miles)	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:
	Val Glu Asp Glu Cys Trp Met Gly Pro Asp Trp Ala Val Cys Trp 1 5 10
	Thr Trp Gly 18
	(2) INFORMATION FOR SEQ ID NO:81:
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids

Gly Gly Cys Ser

	(2) INFORMATION FOR SEQ ID NO:82:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 12 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:
	Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys 1 10 12
	(2) INFORMATION FOR SEQ ID NO:83:
A draw dam dand dad	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
11 mg	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:
	Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Ala Ala 1 5 10
la la	(2) INFORMATION FOR SEQ ID NO:84:
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:
·	Cys Arg Lys Gly Pro Leu Gln Trp Leu Cys Glu Leu Tyr Ph 1 5 10 1
	(2) INFORMATION FOR SEQ ID NO:85:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 14 amino acids
(B) TYPE: Amino Acid
(D) TOPOLOGY: Linear

(B) TYPE: Amino Acid(D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
	Cys Arg Lys Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe 1 5 10 14	
	(2) INFORMATION FOR SEQ ID NO:86:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
	Cys Lys Glu Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe 1 5 10 14	
	(2) INFORMATION FOR SEQ ID NO:87:	
that if it then then then then	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	
	Cys Lys Glu Gly Pro Leu Leu Trp Leu Cys Glu Lys Tyr Phe 1 5 10 14	
_	(2) INFORMATION FOR SEQ ID NO:88:	
South Cheest Manne after the	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
	Ser Glu Val Gly Cys Arg Glu Gly Pro Leu Gln Trp Leu Cys Gl 1 5 10 1	u 5
	Lys Tyr Phe 18	
	(2) INFORMATION FOR SEQ ID NO:89:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:	
Cys Ala Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe 1 5 10 14	
(2) INFORMATION FOR SEQ ID NO:90:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:	
Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Arg Tyr Phe 1 5 10 14	
(2) INFORMATION FOR SEQ ID NO:91:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:	
(B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91: Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Phe Phe 1 5 10 14)]
(2) INFORMATION FOR SEQ ID NO:92:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:	
Cys Lys Ala Gly Pro Leu Leu Trp Leu Cys Glu Arg Phe Ph 1 5 10 1	e 4
(2) INFORMATION FOR SEQ ID NO:93:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	
Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Arg Phe Ph 1 5 10 1	e .4

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:
Cys Arg Glu Gly Pro Leu Gln Trp Leu Cys Glu Arg Phe Phe 1 5 10 14
(2) INFORMATION FOR SEQ ID NO:95:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:
Cys Lys Glu Gly Pro Leu Leu Trp Leu Cys Glu Arg Phe Phe 1 5 10 14
(2) INFORMATION FOR SEQ ID NO:96:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 14 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:
Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe 1 5 10 14
(2) INFORMATION FOR SEQ ID NO:97:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:
Ser Glu Met Val Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu 1 5 10
Ile Tyr Phe 18

(2) INFORMATION FOR SEQ ID NO:94:

	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 18 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
	Glu Ala Arg Val Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys G	lu 15
	Lys Tyr Phe 18	
	(2) INFORMATION FOR SEQ ID NO:99:	
in the state of th	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 21 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
3	Ser Glu Val Gly Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys G 1 5 10	lu 15
	Lys Tyr Phe Ser Thr Tyr 20 21	
<u>.</u>	(2) INFORMATION FOR SEQ ID NO:100:	
of their line then K'	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 17 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
	Cys Arg Ala Gly Pro Leu Gln Trp Leu Cys Glu Lys Tyr Phe S	15
	Thr Tyr 17	
	(2) INFORMATION FOR SEQ ID NO:101:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 amino acids(B) TYPE: Amino Acid(D) TOPOLOGY: Linear	
	•	

(2) INFORMATION FOR SEQ ID NO:98:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101: Ala Ser Glu Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys 10 Asn Met Trp Gly Arg (2) INFORMATION FOR SEQ ID NO:102: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102: Ala Ser Glu Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys 10 Asn . 16 (2) INFORMATION FOR SEQ ID NO:103: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103: Gly Pro Glu Thr Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 5 (2) INFORMATION FOR SEQ ID NO:104: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 amino acids (B) TYPE: Amino Acid (D) TOPOLOGY: Linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104: Glu Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 10 (2) INFORMATION FOR SEQ ID NO:105: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids (B) TYPE: Amino Acid

(D)	TOPOLOGY:	Linear
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

Glu Val Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 1 5 10 13

- (2) INFORMATION FOR SEQ ID NO:106:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

Cys Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn 1 5 10 11

- (2) INFORMATION FOR SEQ ID NO:107:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ. ID NO:107:

Trp Pro Val Ala Glu Trp Tyr Leu Cys Asn
1 5 10

- (2) INFORMATION FOR SEQ ID NO:108:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

Cys Gln Leu Val Arg Pro Asp Leu Leu Cys Gln
1 5 10 12

- (2) INFORMATION FOR SEQ ID NO:109:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: Amino Acid
 - (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

Ile Pro Val Ser Pro Asp Trp Phe Val Cys Gln $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 11$

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